

### In the Claims

1. (Original) A method of RTM molding wherein a reinforcing fiber substrate is placed in a mold, resin distribution media each exhibiting a resin flow resistance lower than a resin flow resistance of said reinforcing fiber substrate are placed on both surfaces of said reinforcing fiber substrate, and after a pressure in said mold is reduced by evacuation, a resin is injected into said mold through said resin distribution media to impregnate said reinforcing fiber substrate with said resin injected, characterized in that a resin flow resistance of a first resin distribution medium placed on a first surface of said reinforcing fiber substrate is set lower than a resin flow resistance of a second resin distribution medium placed on a second surface of said reinforcing fiber substrate, and said evacuation is carried out through said second resin distribution medium while said resin is injected into said first resin distribution medium to impregnate said reinforcing fiber substrate with said resin injected.

2. (Original) The method of RTM molding according to claim 1, wherein said reinforcing fiber substrate comprises a laminate of reinforcing fiber materials.

3. (Previously Presented) The method of RTM molding according to claim 1, wherein said resin flow resistance of said first resin distribution medium is set at  $1/3$  of said resin flow resistance of said reinforcing fiber substrate or less.

4. (Original) The method of RTM molding according to claim 3, wherein said resin flow resistance of said first resin distribution medium is set at  $1/10$  of said resin flow resistance of said reinforcing fiber substrate or less.

5. (Previously Presented) The method of RTM molding according to claim 1, wherein a peel ply capable of being removed together with a resin distribution medium after molding is interposed between at least one resin distribution medium and said reinforcing fiber substrate.

6. (Previously Presented) The method of RTM molding according to claim 1, wherein a porous sheet is interposed between at least one resin distribution medium and said reinforcing fiber substrate.

7. (Previously Presented) The method of RTM molding according to claim 1, wherein at least one resin distribution medium is formed by providing a groove as a resin flow path on an inner surface of said mold.

8. (Previously Presented) The method of RTM molding according to claim 1, wherein injection of a resin is started also through said second resin distribution medium before said resin injected through said first resin distribution medium reaches said second surface.

9. (Previously Presented) The method of RTM molding according to claim 1, wherein, after a molded product is released from said mold, at least one resin distribution medium is left in said molded product without removing it from said molded product.

10. (Previously Presented) The method of RTM molding according to claim 1, wherein at least two resin injection gates are disposed above said first resin distribution medium, and resin injection is carried out simultaneously from at least two resin injection gates adjacent to each other, or from all resin injection gates.

11. (Original) A method of RTM molding characterized in that a reinforcing fiber substrate is placed in a mold, a resin distribution medium exhibiting a resin flow resistance lower than a resin flow resistance of said reinforcing fiber substrate is placed on a surface of said reinforcing fiber substrate opposite to said mold, a degasification medium comprising a gas permeation film and a gas permeable substrate is provided between said reinforcing fiber substrate and said mold, a resin is injected into said mold through said resin distribution medium after a pressure in said mold is reduced by evacuation, and said resin injected is impregnated into said

reinforcing fiber substrate by evacuating said resin injected from a degasification space formed between said gas permeation film and said mold.

12. (Original) The method of RTM molding according to claim 11, wherein said reinforcing fiber substrate comprises a laminate of reinforcing fiber materials.

13. (Previously Presented) The method of RTM molding according to claim 11, wherein said gas permeation film has a releasability capable of being delaminated from a molded product after molding.

14. (Previously Presented) The method of RTM molding according to claim 11, wherein at least two resin injection gates are disposed above said resin distribution medium, and resin injection is carried out simultaneously from at least two resin injection gates adjacent to each other, or from all resin injection gates.

15. (Previously Presented) The method of RTM molding according to claim 11, wherein at least one evacuation route is provided in said mold in addition to an evacuation route from said degasification space formed between said gas permeation film and said mold.

16. (Currently Amended) A method of RTM molding ~~wherein comprising:~~  
forming a reinforcing fiber substrate as a preform having a fiber volume content,  
which is a rate of a volume of reinforcing fibers relative to a bulk volume of said reinforcing  
fiber substrate, lower than a target fiber volume content;  
placing the reinforcing fiber substrate ~~is placed in a mold~~[[,]];  
providing a resin injection line and an evacuation line each communicating with an  
inside of said mold ~~are provided, a;~~  
reducing pressure in said mold ~~is reduced by evacuation and;~~

~~injecting a resin is injected into said mold and impregnated~~impregnating the resin into said reinforcing fiber substrate to form an FRP molded material,~~characterized in that, after said resin is impregnated into said reinforcing fiber substrate so as to achieve a fiber volume content lower than [[a]]the target fiber volume content of said FRP molded material, the~~

~~stopping injection of the resin is stopped;~~ and

thereafter, continuing evacuation of the resin ~~is continued~~ until reaching said target fiber volume content.

17. (Cancelled)

18. (Previously Presented) The method of RTM molding according to claim 16, wherein, after said injection of resin is stopped, at least one line of resin injection lines is changed to an evacuation line, and said evacuation of resin is continued until reaching said target fiber volume content.

19. (Previously Presented) The method of RTM molding according to claim 16, wherein said target fiber volume content is in a range of 55 to 65%.

20. (Previously Presented) The method of RTM molding according to claim 16, wherein said fiber volume content lower than said target fiber volume content is in a range of 45 to 60%.

21. (Original) The method of RTM molding according to claim 20, wherein said fiber volume content lower than said target fiber volume content is in a range of 45 to 55%.

22. (Previously Presented) The method of RTM molding according to claim 16, wherein reaching said target fiber volume content is determined by measurement of a thickness of said reinforcing fiber substrate.

23. (Previously Presented) The method of RTM molding according to claim 16, wherein an injection amount of resin corresponding to said fiber volume content lower than said target fiber

volume content is preset, and said injection of resin is stopped at the time reaching said injection amount preset.

24. (Previously Presented) The method of RTM molding according to claim 16, wherein an evacuation amount for reaching said target fiber volume content is preset relative to an injection amount of resin, and said evacuation of resin is stopped at the time reaching said evacuation amount preset.

25. (Previously Presented) The method of RTM molding according to claim 16, wherein at least one layer of said reinforcing fiber substrate comprises a carbon fiber layer.

26. (Original) The method of RTM molding according to claim 25, wherein said carbon fiber layer is formed as a woven fabric.

27. (Original) The method of RTM molding according to claim 26, wherein said woven fabric is formed as a unidirectional woven fabric.

28. (Original) A method of RTM molding characterized in that a plurality of reinforcing fiber materials are laminated in a mold to form a reinforcing fiber material laminate, and a resin is impregnated into said reinforcing fiber material laminate by injecting a resin in a direction from an end surface of said reinforcing fiber material laminate along a laminate surface while reducing a pressure in said mold by evacuation.

29. (Original) The method of RTM molding according to claim 28, wherein said resin is injected from said end surface of said reinforcing fiber material laminate mainly into a portion between layers of said reinforcing fiber materials, and resin injected is impregnated into respective reinforcing fiber materials.

30. (Previously Presented) The method of RTM molding according to claim 28, wherein a gross length of said reinforcing fiber material laminate is 600 mm or less.

31. (Previously Presented) The method of RTM molding according to claim 28, wherein a resin viscosity at a temperature for resin injection is maintained in a range of 10 to 1500 mPa · s during a time from starting of resin impregnation to expiration of one hour.

32. (Previously Presented) The method of RTM molding according to claim 28, wherein a sectional shape of said reinforcing fiber material laminate is a rectangular, C-type, I-type, L-type, Z-type, T-type, J-type or hat shape.

33. (Previously Presented) The method of RTM molding according to claim 28, wherein said reinforcing fiber material laminate comprises a part for forming a stringer material having a section of a rectangular, C-type, I-type, L-type, Z-type, T-type, J-type or hat shape, and a part for forming a skin material.

34. (Original) The method of RTM molding according to claim 33, wherein, after said resin is injected from an end surface of said part for forming a stringer material of said laminate mainly into a portion between layers of said reinforcing fiber materials, resin injected is impregnated into the entire part for forming a stringer material.

35. (Original) The method of RTM molding according to claim 34, wherein for said part for forming a skin material, said resin is impregnated in a thickness direction while distributed in a direction along a surface of said part for forming a skin material via a resin distribution medium, and a reinforcing panel formed from said skin material and said stringer material is molded integrally.

36. (Previously Presented) The method of RTM molding according to claim 28, wherein an upper mold provided with a resin distribution medium or a resin flow path groove is further disposed on said end surface of said reinforcing fiber material laminate.